

MILLSTONES.

W. R. DELL AND SON have now the largest and most varied Stock of FRENCH BURRS of any house in London, and from their experience of the kind of stone best adapted for grinding various classes of substances, are able to guarantee satisfaction.

MILLSTONES

FOR WHEAT,

BARLEY,

RIVETS,

CEMENT,

COPROLITES,

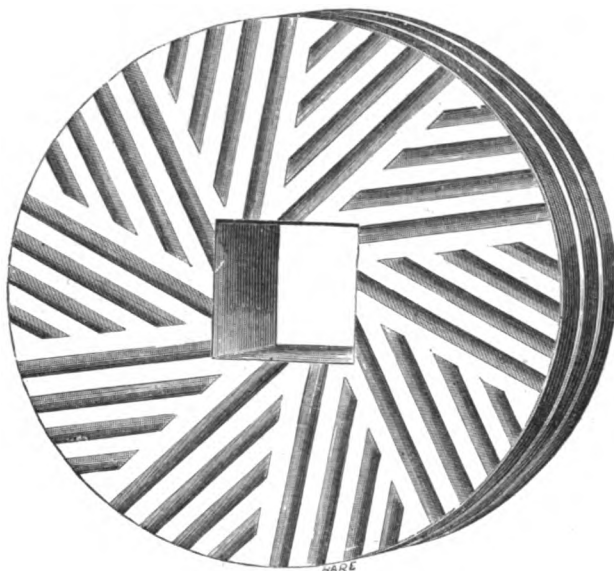
BARYTES,

PAINT,

DRUGS,

SPICES,

COCOA.



PEAK OR DERBY-
SHIRE GREY
STONES.

COLOGNE STONES.

GRANITE STONES for
Edge Runners.

YORKSHIRE STONES
for ditto.

NEWCASTLE GRIND-
STONES.

STONES for Grinding
Wood for Paper
Making, &c., &c.

This department of the business of Mill Furnishing is of too varied a character for a List of Prices to be possible which would be any real guide to purchasers, as the requirements of different countries and even of different parts of the same country for doing the same work vary greatly ; but Prices will always be gladly furnished on application.

MILLSTONES FOR GRINDING PORTLAND CEMENT are a speciality with W. R. D. & SON, they having for many years supplied some of the principal makers of that article with their Millstones.

All Stones when not otherwise ordered are built to the standard specification of the principal London Cement houses.

THE "ECONOMIC" FLOUR FEEDER MIXER.



With this very simple Machine, Millers entirely overcome the difficulty that has been experienced by them in feeding and *evenly* mixing flours of different qualities in the *desired proportions*.

Any required quantity (from one peck to four or five sacks per hour) of Foreign Flour, Flour from double ground sharps, &c., can be mixed with undeviating regularity, with the Meal passing *into* a Dressing Machine, or with the Flour coming *from* it. Some Millers prefer the former, whilst for others the latter is the most convenient plan.

Its construction is so simple that it is impossible for it to get out of order. Being a very small Machine it can be placed in almost any desired position, the extreme dimensions being : height, 2 feet 6 inches ; length, 2 feet ; breadth, 2 feet.

It enables the Flour at once to be packed into sacks.

It saves time and an immensity of labour, and blends the Flour in a manner unattainable by hand labour.

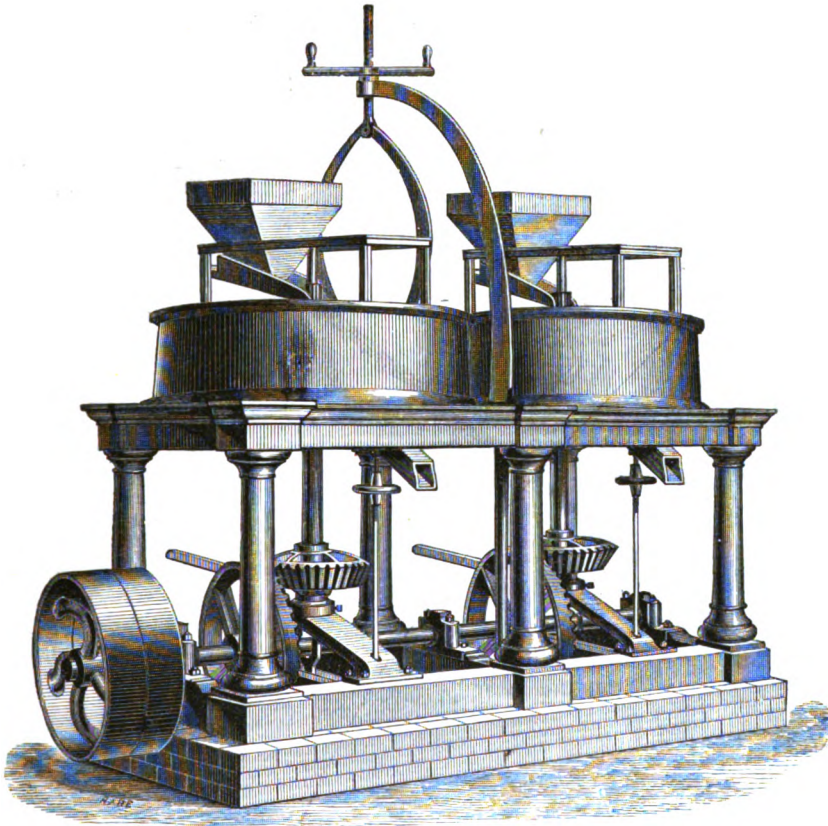
Speed of eccentric, 20 to 25 revolutions per minute ; diameter of pulley, 8 inches.

PRICE £6 NET. FREE ON RAILS IN LONDON.

All kinds of Wheat-cleaning Machines and other Mill Work, St. James's Iron Works, Croydon.

WM. R. DELL AND SON,
MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE,
LONDON.

IMPROVED IRON FRAME DOUBLE GRINDING MILL, FOR TWO PAIRS OF STONES.



The above Engraving represents an improved design for Independent Double Iron Hursts for Two Pairs of Stones, with all the latest improvements—Mortise Driving Wheel, Iron Pinions, pitched and trimmed, Adjusting Screws, Disengaging Gear, Stone Crane, and Fast and Loose Pulley. The whole is fitted up in the best possible manner, and forms a substantial Mill at very small cost in fixing.

IMPROVED IRON FRAMED INDEPENDENT CORN MILLS.

SINGLE.

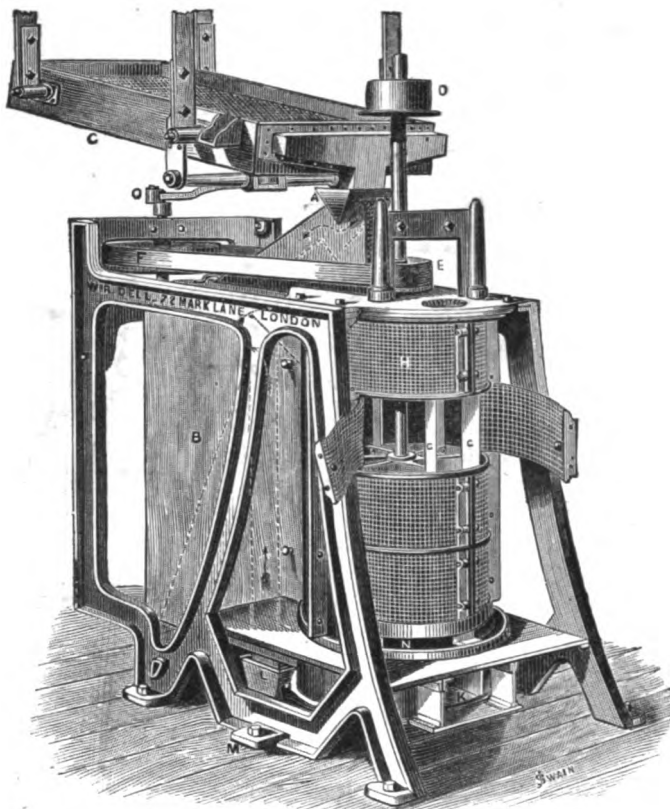
Diameter of Stones	30 in.	36 in.	42 in.	48 in.
	<i>£</i> <i>s.</i> <i>d.</i>	<i>£</i> <i>s.</i> <i>d.</i>	<i>£</i> <i>s.</i> <i>d.</i>	<i>£</i> <i>s.</i> <i>d.</i>
With French Burr Stones	48 0 0	62 0 0	76 0 0	94 0 0
French Burr Bedstone and Derbyshire Runner	46 0 0	56 0 0	69 0 0	84 0 0
With Derbyshire Stones	40 0 0	50 0 0	62 0 0	74 0 0
If with Wheels, one with wood and one with iron teeth, and both pitched and trimmed, extra	1 15 0	1 17 6	2 2 0	2 10 0
Pair of Fast and Loose Pulleys	2 0 0	2 10 0	2 15 0	3 0 0
Stone Crane	6 10 0	6 15 0	7 10 0	8 0 0

Double Corn Mills double the price of Single.

WM. R. DELL AND SON,
MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE,
LONDON.

THE "ECONOMIC" SMUT MACHINE AND SEPARATOR.

W. R. D. & S. have for many years devoted special attention to Machines for Cleaning and Decorticating Wheat, and are able to offer machines suited to the requirements of any style of Mill, whether large and small, ranging in Price from £12 12s. to £120.



This machine consists, first, of a Separator, with two or more sieves. The top one takes out stones, nails, and any extraneous matter larger than wheat; the lower one removes all loose dust, small seeds, &c. The wheat then passing over this sieve is delivered into the hopper, A, and as it falls a current of air is drawn through it, which takes away the smut-balls, WITHOUT BEING BROKEN, before the wheat enters the scouring part of the apparatus. From the hopper the wheat passes between two corrugated metal plates, which distribute it over the surface of the Cylinder; it is then subjected to the process of severe friction, by the beaters throwing off the wheat in such a manner that the grain itself materially assists the work of cleaning. After it leaves the Cylinder the wheat falls into an exhaust spout, through which a strong current of air is passing to the fan, holding the grain in suspension, and effectually separating all remaining impurities; the light and unsound corn is deposited in a chamber arranged for the purpose, which can be drawn off at a sleeve. The power of the fan is regulated by an adjustable valve.

The Cylinder is encircled with a casing of sheet iron, and being open to the fan below all dust is at once drawn away; a strong and continuous current of air through every part of the machine effectually prevents any deposits, the great advantage of which will be at once recognized by every practical miller. All the bearings and brasses are thus kept free from dust, and can be oiled and attended to while the machine is at work.

No.	Width.	Length of Frame.	Height.	Height to top of Sifter.	Diam. of Cylinder.	Length of Cylinder.	Power.	Capacity per Hour.	Revolutions per Minute.	PRICE IN LONDON.					
										Without Separator.			With Separator, complete.		
	ft. in.	ft. in.	ft. in.	ft. in.	in.	ft. in.	h.-p.	bush.		£	s.	d.	£	s.	d.
1	2 6	4 10	4 3	6 0	14	2 2	1½	40	650	20	0	0	31	0	0
2	2 6	4 10	5 3	6 8	14	2 6	2	50	650	25	0	0	35	0	0
3	2 9	5 6	5 3	6 8	16	2 6	2	70	600	35	0	0	40	0	0
4	3 0	6 0	5 9	6 10	18	2 10	3	80	500	40	0	0	50	0	0
5	3 6	6 0	5 9	7 0	22	2 10	4	100	450	50	0	0	60	0	0
6	3 9	6 6	6 3	7 6	22	3 6	5	120	450	60	0	0	75	0	0

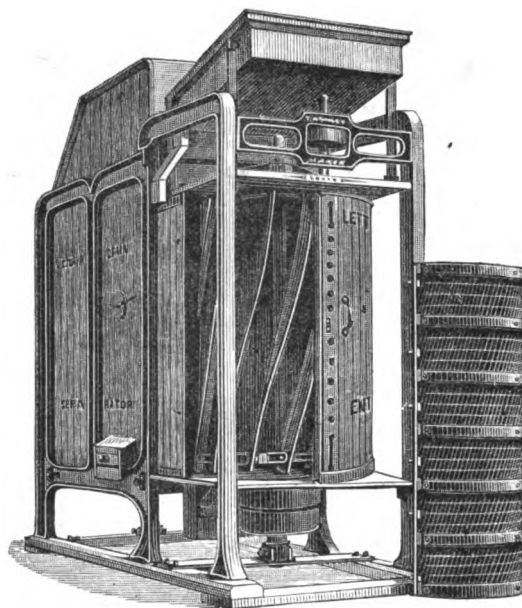
WM. R. DELL AND SON,

MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE, LONDON.

The "Victoria" Combined Double Aspirator, Separator, and Smutter.

PATENTED IN GREAT BRITAIN, FRANCE, BELGIUM, AND THE UNITED STATES OF AMERICA.

This Machine is complete in itself, and its wide range of capabilities renders it one of the most perfect Machines known. All kinds of grain and seed can be cleansed and separated by this apparatus, and any grain or seeds that may require scouring can be passed through the scouring cylinder, which is of peculiar construction and of ample dimensions; and any class of grain or seed requiring to be operated upon that does not require scouring can be passed through the separator and double exhaust without entering the scouring cylinder. The change in the Machine is effected instantaneously whilst in motion, by the action of a change valve. This valuable and useful Machine is most simple and effective, and of superior and solid construction.



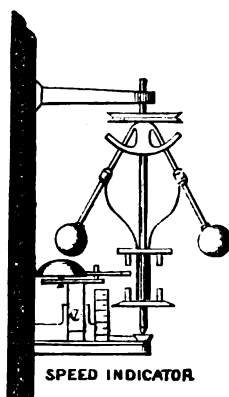
No.	Extreme Height.	Size on Floor.		Weight.	Speed of Main Shaft.	Diameter of Driving Pulley.	Capacity in Bushels per hour.	Length of Cylinder.	Diameter of Cylinder.	Price on Rail at Louth.
1	ft. in. 8 0	ft. in. 8 3	ft. in. by 3 6	cwt. 30	550	in. 14	80 to 110	ft. in. 4 2	in. 30	£ 120
2	7 4	8 3	„ 3 6	25	550	14	60 „ 100	3 6	30	100
3	6 4	7 2	„ 2 8	20	700	12	40 „ 60	2 10	24	80

SPEED INDICATOR

This apparatus is invaluable where a silent feed is employed, and is extremely simple in operation.

HOPKINSON'S PATENT SILK FLOUR DRESSING MACHINE.

Price, from £70 to £110 complete with cloth.



SPEED INDICATOR

FOR MILLSTONES.

PRICE.

Small Size £3 3 0
Large Size, with dial 7 10 0

FAIRCLOUGH'S PATENT MIDLINGS PURIFIER.

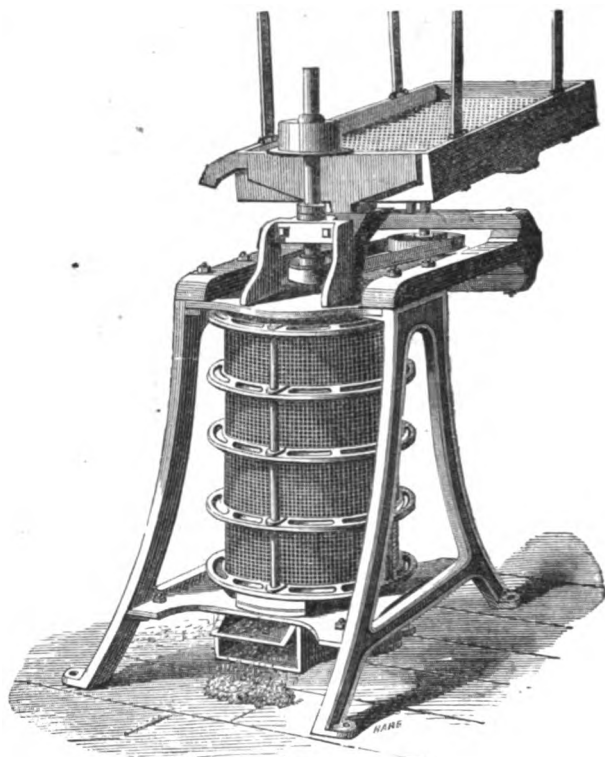
Price, £110, £130, and £150, according to size.

WM. R. DELL AND SON,

MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE, LONDON.

K

THE "ECLIPSE" SMUT MACHINE AND SEPARATOR.



The importance of having a Separator or Sifter attached to the Smut Machine has induced W. R. DELL AND SON to make an arrangement for this purpose of so simple a character as not to involve any additional machinery to work it, while the power required will scarcely be perceived, and the cost of the whole is so moderate as to make it at once the cheapest and best machine of the kind.

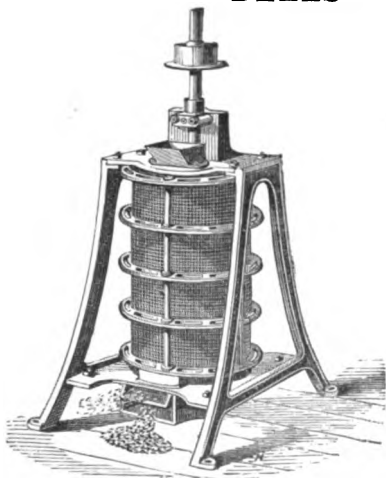
The Separator consists of two or more sieves; the upper one takes out stones, nails, sack tyers, &c., and the lower sieve separates the small seeds and dust from the wheat, which then passes into the Smutter, where it is subjected to a process of severe friction, first by passing between two corrugated metal plates, next between two cylinders of rough wire, with beaters, which will pulverize the hardest pieces of dirt without breaking the wheat, which then falls before the blast of a powerful wind-fan attached, and is thoroughly cleansed from all impurities.

No.	Sheets Long.	Speed.	Diameter of Cylinder.	Will Clean per Hour.	Price
1	4	700	14 inches	40 to 45 Bushels.	£20.

DELLS' "UNIQUE" SMUT MACHINE.

FOR SMALLER MILLS.

No. 1. PRICE £12 12s.



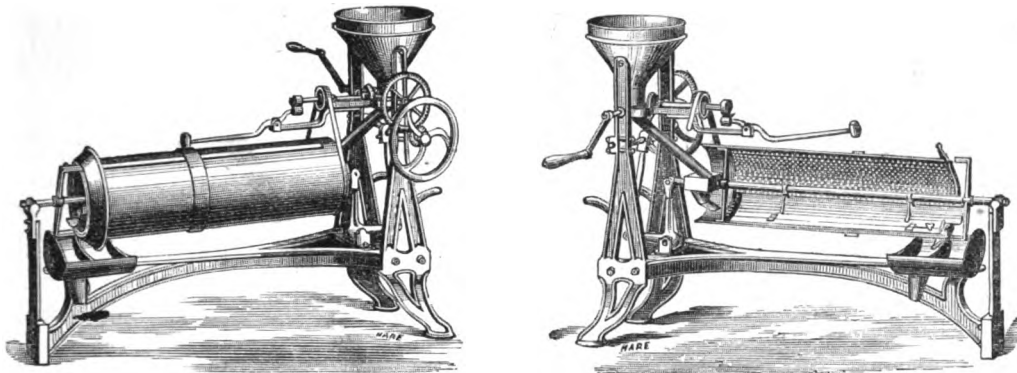
This is a very effective machine for cleaning wheat, which is subjected to a process of severe friction; first, by passing over a corrugated metal plate; next between two cylinders of rough wire, with beaters, and then passes through a powerful blast from the wind-fan attached. It occupies but little space, and is complete in itself—will clean from 5 to 6 qrs. per hour, when driven at 650 revolutions per minute.

WM. R. DELL AND SON,
MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE,
LONDON.

THE "DUPLEX" GRAIN SORTER,

ADAPTED FOR THE SEPARATION OF ROUND FROM LONG SEEDS.

All Millers who have adopted these Machines report generally that they find them indispensable.



All ordinary Separators are useless  for the special purpose for which this Machine is adapted.

The "DUPLEX" Grain Sorter effects in the most simple manner the separation of round from long seeds; its construction is distinct, and, unlike any ordinary machine for this purpose, is not likely to get out of order; is durable and inexpensive. It consists of a metal Cylinder (see sketch) which has a rotatory and longitudinal motion; the concave of the Cylinder is pierced with semi-spherical holes or cavities; a stationary shoot extends the whole length of, and inside the Cylinder.

The wheat or grain enters the Cylinder and passes over the honeycomb surface, or round cavities, which latter, from their form and oblique position, take up the round seeds only, which remain until the Cylinder has rotated sufficiently high to cause them to fall from the cavities by their own gravity into the stationary shoot, down which they pass into the round seed spout; the wheat and similar grain from its elongated form passes over the round cavities, and being thus freed from the round seeds is delivered into a separate spout.

This apparatus is invaluable to Millers, &c., who know the necessity of good machinery to separate from grain, smut balls, garlic, cliver, tares, peppercorn or blighted kernels, cockle, and other leguminous or oleaginous seeds, which discolour the flour and are nauseous to the taste.

To the Merchant or Farmer it is most useful, as the wheat should be well separated either for sale or for sowing.

Machines adapted for separating oats from wheat are also manufactured; the honeycombed surface or holes being of larger diameter to allow the wheat to fall into them, while the oats being of lengthened form pass over them, and are perfectly separated. The power required is nominal, the largest size not requiring one-horse power.

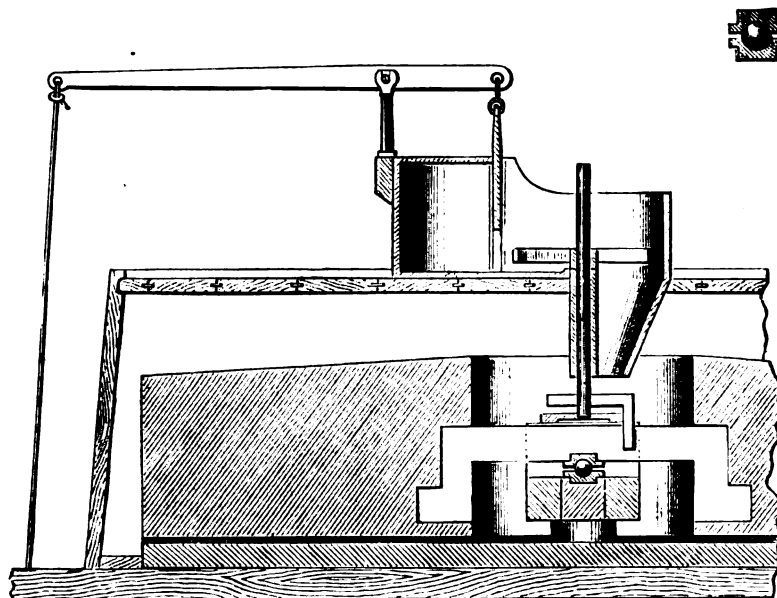
	Sizes adapted for Farmers, &c.			Sizes for Mills from 2 to 5 Pairs of Millstones.		For larger Mills.
	No. 1.	No. 2.	No. 3. With Sieve.	No. 4. With Sieve.	No. 5. No Sieve.	No. 6. 2 Cylinders. No Sieves.
Height of Machine	4 ft. 3 in.	4 ft. 5 in.	4 ft. 5 in.	5 ft.	5 ft. 7 in.	7 ft. 3 in.
Width	1 " 2 "	1 " 4 "	1 " 4 "	1 ft. 6 in.	2 ft.	4 ft.
Length	4 " 3 "	5 " 7 "	4 " 9 "	6 " 3 "	7 ft. 10 in.	7 ft. 10 in.
Weight	2 cwt.	2½ cwt.	3 cwt.	5 cwt.	7½ cwt.	One ton.
Capacity per 12 hours in bushels	45	80	90	130	195	390
Diameter of Pulley	hand	hand	15 in.	14½ in.	18½ in.	19½ in.
No. of Revolutions per minute	..	..	50	60 to 62	68 to 70	78 to 80
Prices, packed	£8 8 0	£12 12 0	£16 10 0	£25 10 0	£39 10 0	£63 0 0
With hammer, £1 extra.						

All Machines delivered F.O.B. or to any Railway Station in London.

Further particulars on application.

WM. R. DELL AND SON,
MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE,
LONDON.

BAKER'S PATENT FEEDER FOR MILLSTONES.



This figure represents the section of a Millstone and Millstone Case, fitted with Baker's Patent Feeder for Millstones. This feeder works on a principle which ensures a feed exactly proportioned to the speed at which the stones are running. The feed is adjusted by the very simple regulating slide shown, so as to pass a certain quantity of wheat per revolution, so that the stones begin grinding at their first revolution, and continue to do so as long as they turn round, always in proportion to the speed. This obviates the necessity for the constant attention at stopping and starting, necessary under the old system. Price £4 per set, ready to fix.

BAKER'S PATENT CUPS & BALLS.

The Cups and Balls afford the most delicate Balance for Millstones which could be desired, with the great advantage of being renewable in a few minutes when worn out, without removal of either the spindle or centre-bar.

The Balls work in oil, and, being tempered to extreme hardness, years of work may be expected with no perceptible difference as to wear. They are not liable to be broken like the ordinary cock-head. In every case their use has kept the stones on a much better Floor or Face. On examination after six years' use no wear is apparent on the Balls. Price £2 per set, ready for use.

Best Cast-steel Mill Chisels and Picks, warranted.
 Flour Dressing Machines of every description, fitted with wire silk.
 Smut Machines, Wheat Screens, and Separators.
 Flour Machines, Brushes, Mill Brooms, Hand and Rib Brushes.
 Machine Wire of superior quality and texture, warranted to dress free.
 Improved square bar Smut Wire, woven by power extra width and strength.
 Strong Wove Wire for Kiln Floors, made any size.
 Punched Iron and Perforated Zinc.
 Best tested Hoisting Chains.
 Metal Provers and Mahogany Staffs.
 Screw Lifting Jacks, Weston's Patent Deferential and other Blocks.
 Leather Driving Bands, best quality, well stretched.

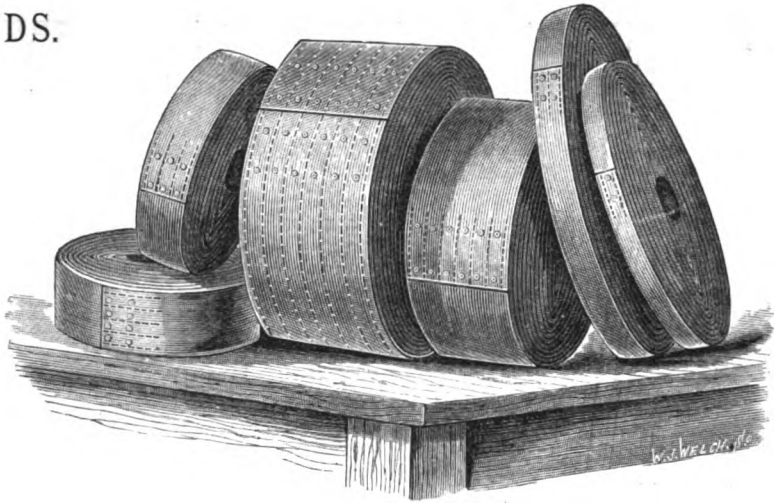
Catgut Bands for Grooved Riggers with Cast-steel Hooks and Eyes.
 Vulcanized Indiarubber and Guttapercha Bands.
 Elevator Webbing and Buckets, Scrap Screws, and Copper Rivets.
 Improved Wrought-iron Worm Creepers, complete, for Corn and Meal.
 Macintosh Cart and Wagon Covers, Tarpaulins, Sacks, and Bran Bags.
 Superior Swiss and French Silk for Dressing Flour.
 Sack Barrows, Warehouse Trucks, Bill Thrifts.
 Corn Measures, Scales, Weighing Machines and Weights, Sieves.
 Improved Patent Bolting Cloths and Reels complete.
 And all other Implements used in Corn, Flour, and Rice Mills.

WM. R. DELL AND SON,

MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE,
 LONDON.

MILL BANDS.

WM. R. DELL AND SON make MILL BANDS a speciality, and have for many years supplied some of the principal houses, both at home and abroad, with their Belting. They guarantee the wear of their first-quality Belting.



LIST OF PRICES.

SINGLE.					DOUBLE.				
Per Foot.					Per Foot.				
1 inch	..	..	—	to 4s. 4d.	3 inch	..	..	2s. 6d.	to 2s. 10d.
1½	..	..	0s. 6d.	.. 0s. 7d.	3½	..	..	3s. 0d.	.. 3s. 4d.
2	..	..	0s. 8d.	.. 0s. 9d.	4	..	..	3s. 5d.	.. 3s. 10d.
2½	..	..	0s. 11d.	.. 1s. 1d.	4½	..	..	3s. 10d.	.. 4s. 4d.
3	..	..	1s. 2d.	.. 1s. 4d.	5	..	..	4s. 4d.	.. 4s. 8d.
4	..	..	1s. 9d.	.. 1s. 11d.	6	..	..	5s. 2d.	.. 5s. 7d.
5	..	..	2s. 2d.	.. 2s. 5d.	7	..	..	6s. 2d.	.. 6s. 9d.
6	..	..	2s. 8d.	.. 3s. 0d.	8	..	..	7s. 6d.	.. 8s. 0d.
7	..	..	3s. 3d.	.. 3s. 7d.	9	..	..	8s. 8d.	.. 9s. 2d.
8	..	..	3s. 10d.	.. 4s. 3d.	10	..	..	9s. 9d.	.. 10s. 4d.
9	..	..	4s. 5d.	.. 4s. 10d.	11	..	..	11s. 0d.	.. 11s. 6d.
10	..	..	5s. 0d.	.. 5s. 5d.	12	..	..	12s. 0d.	.. 12s. 8d.

W. R. DELL AND SON are large Importers of the BEST SWISS AND FRENCH SILKS for Dressing Flour and Separating Rubbles.

LIST OF PRICES.

SWISS, 39½ inch.			FRENCH, 21 inch.			FRENCH, 23 inch.		
No.	Price per yard.		No.	Price per yard.		No.	Price per yard.	
000	.. .. 5s. 0d.		6			80	.. .. 4s. 3d.	
00	.. .. 5s. 3d.		10			90	.. .. 4s. 6d.	
0	.. .. 5s. 9d.		12	.. .. 3s. 6d.		100	.. .. 4s. 9d.	
1	.. .. 6s. 6d.		14			105	.. .. 5s. 0d.	
2	.. .. 7s. 6d.		16			110	.. .. 5s. 3d.	
3	.. .. 8s. 6d.		18			115	.. .. 5s. 6d.	
4	.. .. 9s. 6d.		20			120	.. .. 6s. 0d.	
5	.. .. 10s. 6d.		24			125	.. .. 6s. 3d.	
6	.. .. 11s. 9d.		28	.. .. 3s. 9d.		130	.. .. 6s. 6d.	
7	.. .. 12s. 9d.		32			135	.. .. 6s. 9d.	
8	.. .. 13s. 9d.		36			140	.. .. 7s. 0d.	
9	.. .. 14s. 3d.					150	.. .. 7s. 3d.	
10	.. .. 15s. 6d.					160	.. .. 7s. 6d.	
11	.. .. 16s. 6d.					170	.. .. 7s. 9d.	
12						180	.. .. 8s. 0d.	
13								
14								
15								
16								

AGENTS FOR BLACKMORE'S PATENT BOLTING CLOTHS.

WM. R. DELL AND SON,
MILLSTONE BUILDERS AND GENERAL MILL FURNISHERS, 26, MARK LANE,
LONDON.